PCT/US2005/000932

		PUI	/052005/000932
A. CLASSII	FICATION OF SUBJECT MATTER F01C9/00 F01B21/00 F02B41/0	04 F02B47/02	F01L7/00
B. FIELDS	o International Patent Classification (IPC) or to both national classification SEARCHED reumentation searched (classification system followed by classification F01C F01B F02B		
Documentat	ion searched other than minimum documentation to the extent that s	uch documents are included in the	e fields searched
Electronic da EPO-In	ata base consulted during the International search (name of data bas ternal	e and, where practical, search to	erms used)
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.
Х	DE 24 38 410 A1 (EMPRESA DE CONS INDUSTRIAL, HAVANNA) 19 February 1976 (1976-02-19)	24 38 410 A1 (EMPRESA DE CONSTRUCTION DUSTRIAL, HAVANNA) February 1976 (1976-02-19)	
	page 18, paragraph 4 - page 22, paragraph		28,29
	figures 21-45		
X	US 3 769 788 A (KORPER G,US) 6 November 1973 (1973-11-06) abstract column 9, line 66 - column 10, l column 16, line 41 - column 17, figures 1,4-7,11	ine 31 line 24	1-4,34, 35
		-/	
X Furt	her documents are listed in the continuation of box C.	X Patent family members	are listed in annex.
"A" docum consk "E" earlier filing o "L" docum which citatio "O" docum other "P" docum	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another or or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means each priority to the international filing date but than the priority date claimed	cited to understand the pri- invention "X" document of particular relev- cannot be considered nove involve an inventive step w "Y" document of particular relev- cannot be considered to in document is combined with	conflict with the application but notple or theory underlying the rance; the claimed invention alone cannot be considered to when the document is taken alone rance; the claimed invention to the claimed invention to the claimed invention to one or more other such docupieling obvious to a person skilled
Date of the actual completion of the international search  18 May 2005		Date of mailing of the international search report  24 -02- 2406	
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016		Authorized officer  Matray, J-F	

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		FC1/032003/000932	
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	<u> </u>	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	US 3 595 014 A (HAROLD A. MCMASTER) 27 July 1971 (1971-07-27)  abstract column 3, line 1 - line 7	1,4, 9-11, 15-21, 23-29, 34,36	
	column 5, line 13 - line 48 column 12, line 20 - line 36 column 16, line 49 - column 17, line 6 figures 7,8		
X	WO 03/074840 A (SHKOLNIK, NIKOLAY) 12 September 2003 (2003-09-12) cited in the application page 16, line 4 - page 17, line 19 page 21, line 7 - page 22, line 21 page 32, line 22 - page 35, line 23 figures 1,3,9,11	1-8, 12-14, 34-36	
X	US 6 397 579 B1 (NEGRE GUY) 4 June 2002 (2002-06-04)  column 2, line 32 - line 45 column 4, line 23 - column 5, line 45	1-4,11, 15,16, 18-23, 34,35	
Α	figures 5-9  US 3 687 117 A (VIKTOR MITRUSHI PANARITI) 29 August 1972 (1972-08-29) column 4, line 30 - line 61	1,12-14	
		9	

International application No. PCT/US2005/000932

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)					
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:					
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box III Observations where unity of Invention is lacking (Continuation of item 3 of first sheet)					
This international Searching Authority found multiple inventions in this international application, as follows:					
see additional sheet					
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.					
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:					
4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-29, 34-36					
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.					

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-29, 34-36

Method of energy conversion with constant volume combustion and corresponding engines.

2. claims: 30-33

Engine or other structure with a fluidic diode between a housing and a movable member.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 2438410 A	19-02-1976	NONE	
US 3769788 A	06-11-1973	NONE	
US 3595014 A	27-07-1971	NONE	
WO 03074840 A	12-09-2003	AU 2003224628 A1 CA 2482336 A1 EP 1485577 A2 JP 2005519216 T	16-09-2003 12-09-2003 15-12-2004 30-06-2005
US 6397579 B:	04-06-2002	AU 731600 B2 AU 2642097 A BR 9708675 A CA 2250998 A1 CN 1219216 A CZ 9803288 A3 DE 19781700 T0 ES 2147715 A2 FR 2748776 A1 WO 9739232 A1 GB 2327103 A HK 1019780 A1 JP 2000508403 T KR 2000005474 A PL 329333 A1 RO 117471 B1 RU 2178090 C2 SE 511407 C2 SE 9803515 A	05-04-2001 07-11-1997 04-01-2000 23-10-1997 09-06-1999 17-02-1999 12-05-1999 16-09-2000 21-11-1997 23-10-1997 13-01-1999 28-02-2003 04-07-2000 25-01-2000 29-03-1999 29-03-2002 10-01-2002 27-09-1999 15-10-1998
	29-08-1972	NONE	